

Harder Problems Chapter 2AF- Solve the following problems making sure to show all your work with units.

1. A river is flowing at 15000 gal/hour. How mL/s is this rate of flow?

2. You pass a road sign saying "New York 112 km." If you drive at a constant speed of 65 mph, how long should it take you to reach New York?

3. The density of osmium (the densest metal) is 22.57 g/cm^3 . If a 1.00 kg rectangular block of osmium has two dimensions of 4.00 cm and 4.00 cm, calculate the third dimension.

4. A copper refinery produces a copper ingot weighing 150 lb. If the copper is drawn into wire whose diameter is 8.25 mm, how many feet of copper can be obtained from the ingot. The density of copper is 8.94 g/cm^3 ?